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APPLICATION N	Ю.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/750,092		12/31/2003	Zhandong Don Zhong	034827-0112	1890
30542	7590	06/16/2006		EXAMINER	
		ONER LLP	BAUGHMAN, MOLLY E		
P.O. BOX 80278 SAN DIEGO, CA 92138-0278				ART UNIT	PAPER NUMBER
	•			1637	
			DATE MAILED: 06/16/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	n No. Applicant(s)					
		10/750,092	ZHONG ET AL.					
	Office Action Summary	Examiner	Art Unit					
		Molly E. Baughman	1637					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)	Responsive to communication(s) filed on							
2a)□	· · · · · · · · · · · · · · · · · · ·	is action is non-final.						
3)[	Since this application is in condition for allow	ance except for formal r	matters, prosecution as to the	e merits is				
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4)🖂	☑ Claim(s) <u>1-39</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	Claim(s) is/are allowed.							
6)□	Claim(s) is/are rejected.							
7)	Claim(s) is/are objected to.							
8)⊠	Claim(s) <u>1-39</u> are subject to restriction and/or election requirement.							
Applicati	ion Papers			•				
9) The specification is objected to by the Examiner.								
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. § 119								
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>								
2)  Notic 3)  Infor	t(s)  te of References Cited (PTO-892)  te of Draftsperson's Patent Drawing Review (PTO-948)  mation Disclosure Statement(s) (PTO-1449 or PTO/SB/0  tr No(s)/Mail Date	Paper	iew Summary (PTO-413) · No(s)/Mail Date e of Informal Patent Application (PT :	O-152)				

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## **DETAILED ACTION**

## Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - I. Claims 1-24, and 33-39 drawn to a method of detecting the presence of reverse transcriptase in a sample, classified in class 435, subclass 91.3.
  - II. Claims 25-27, drawn to a molecular structure, classified in class 536, subclass 23.1 and class 536, subclass 24.3.
- III. Claims 28-32, drawn to a kit, classified in class 422, subclass 61.

  The inventions are distinct, each from the other because of the following reasons:
- 2. Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make another and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the molecular structure of invention II could be made by an entirely different process than that of invention I. The molecular structure could be made with an entirely different capture molecule than a hapten (claim 13) of invention I. For example, the capture molecule could be a DNA oligonucletide, biotin, or hairpins. Furthermore, the DNA primer comprising a deoxynucleotide linked to an acridinium moiety of invention II (claim 25), could be made with a different composition than that of invention I. For example, the acridinium moiety could be 9-(2-biotinyl-

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oxyethyl)-carboxylate-10-methyl-acridinium triflate, or N-sulfonylacridinium-9-carboxamide, or an acridinium-ester-labeled biotinylated probe.

- 3. Inventions III and I are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product. See MPEP § 806.05(h). In the instant case the kit of invention III could be used in other methods than that of invention I. The deoxynucleotide triphosphate labeled with an acridinium moiety (claim 31), could be used in a method where the acridium moiety is 9-(2-biotinyl-oxyethyl)-carboxylate-10-methyl-acridinium triflate, or N-sulfonylacridinium-9-carboxamide, or an acridinium-ester-labeled biotinylated probe. Likewise, the deoxynucleotide triphosphate of invention III (claim 32) could be made with an entirely different capture molecule than a hapten (claim 13) of invention I. For example, the capture molecule could be a DNA oligonucleotide, biotin, or hairpins.
- 4. Inventions II and III are directed to related template-primer hybrid comprising a deoxynucleotide triphosphate labeled with an acridinium moiety. The related inventions are distinct if the inventions as claimed do not overlap in scope, i.e., are mutually exclusive; the inventions as claimed are not obvious variants; and the inventions as claimed are either not capable of use together or can have a materially different design, mode of operation, function, or effect. See MPEP § 806.05(j). In the instant case, the molecular structure of invention II is drawn to an RNA template further comprising a

capture moiety (claim 25). The kit of invention III is drawn to a capture moiety linked to the deoxynucleotide triphosphate (claim 32) and not an RNA template as in invention II. The capture moiety on an RNA template versus a deoxynucleotide triphosphate has a materially different design and mode of operation, and therefore, inventions II and III are distinct inventions.

- 5. Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper.
- 6. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

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7. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Molly E. Baughman whose telephone number is 571-272-4434. The examiner can normally be reached on Monday-Friday 8-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Benzion can be reached on 571-272-0782. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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KENNETH R. HORLICK, PH.D PRIMARY EXAMINED

6/12/06